

FIG. 1

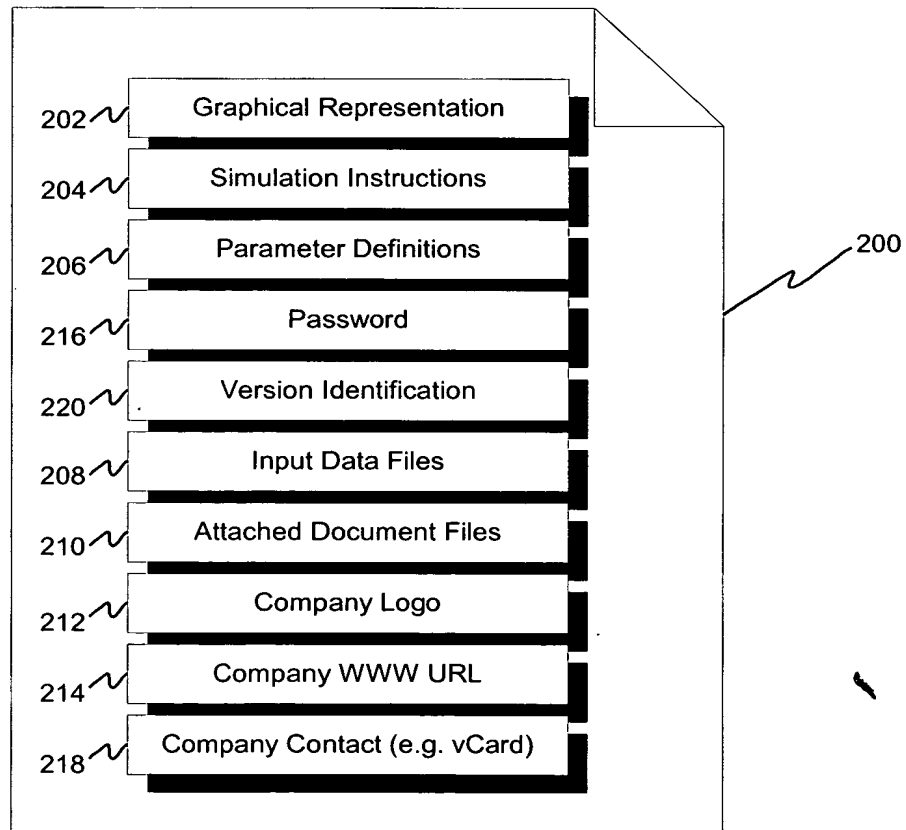


FIG. 2

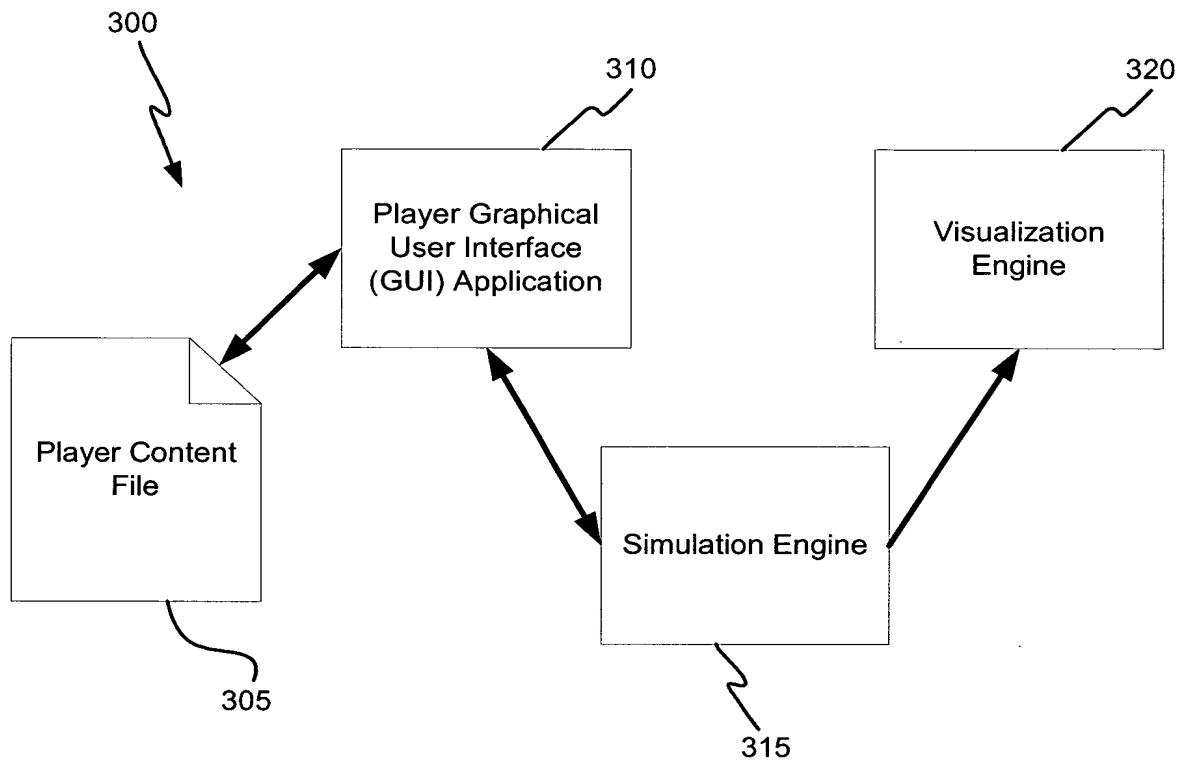


FIG. 3

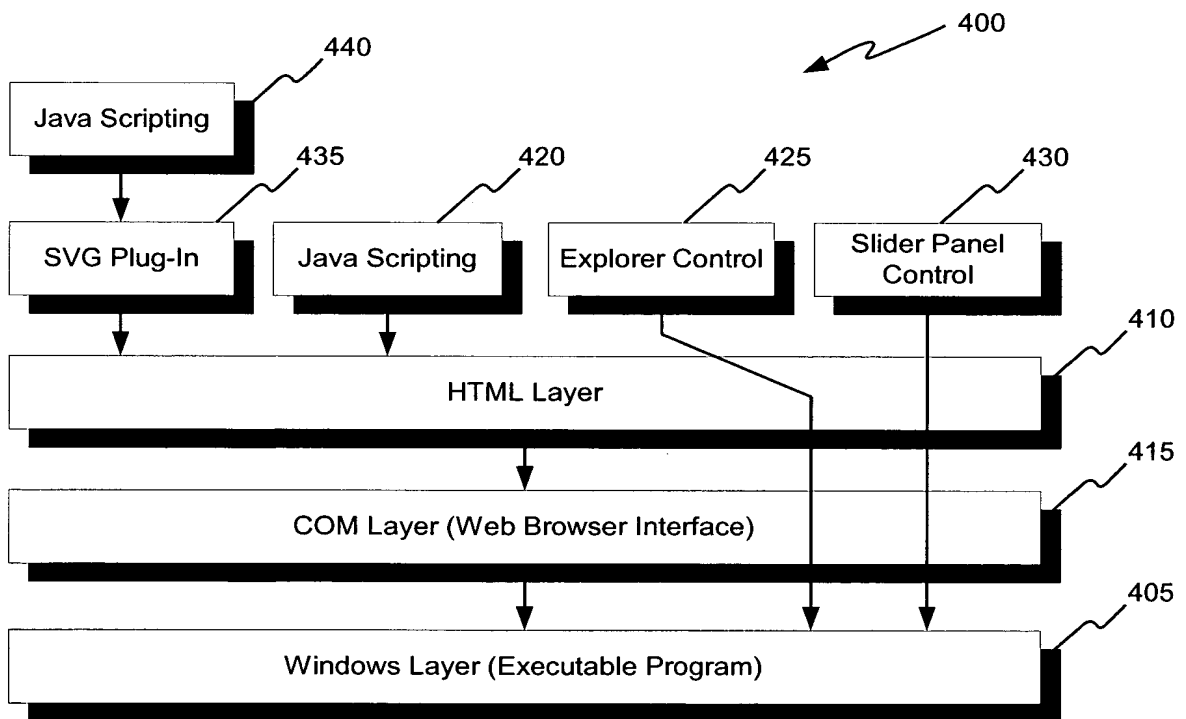
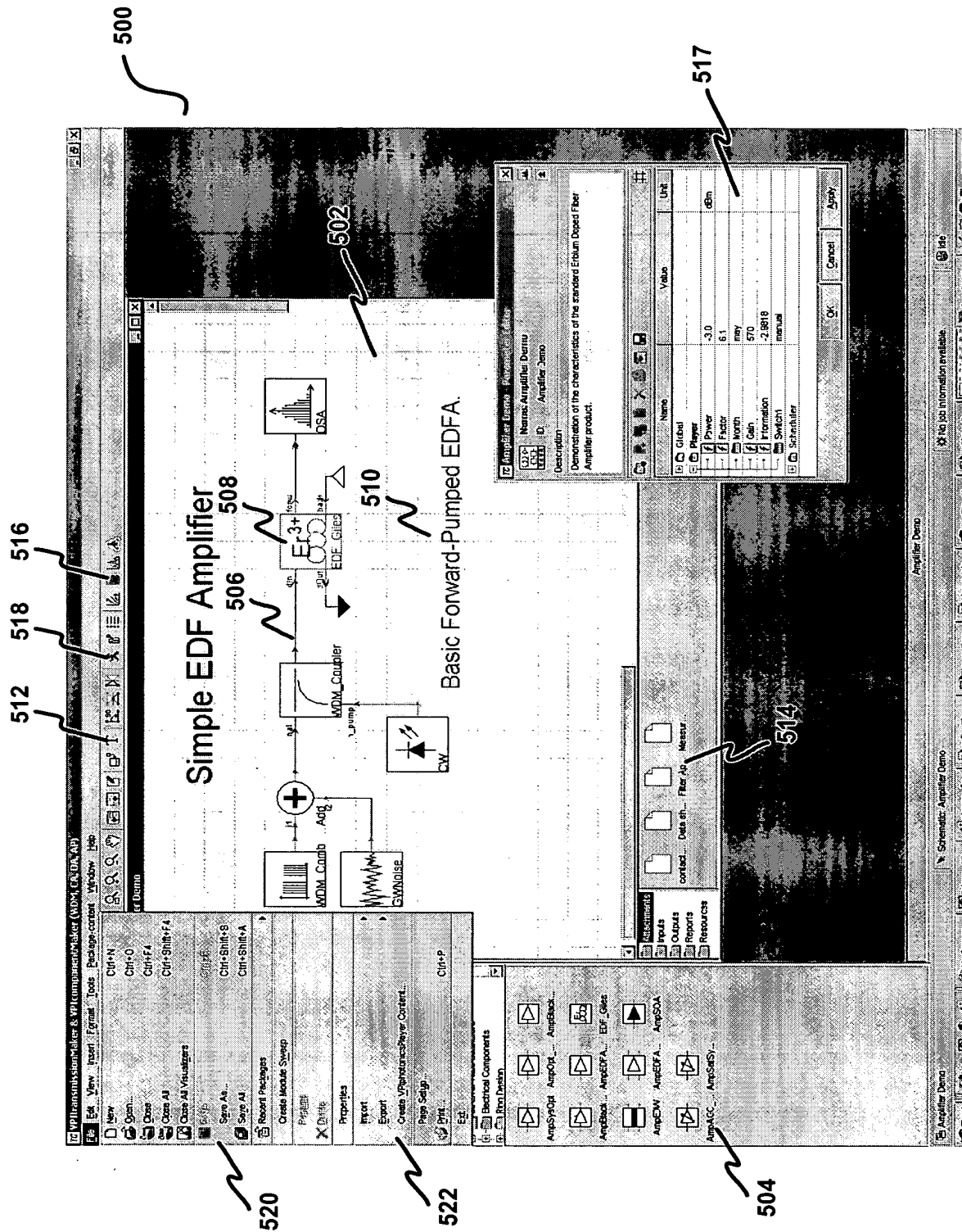


FIG. 4



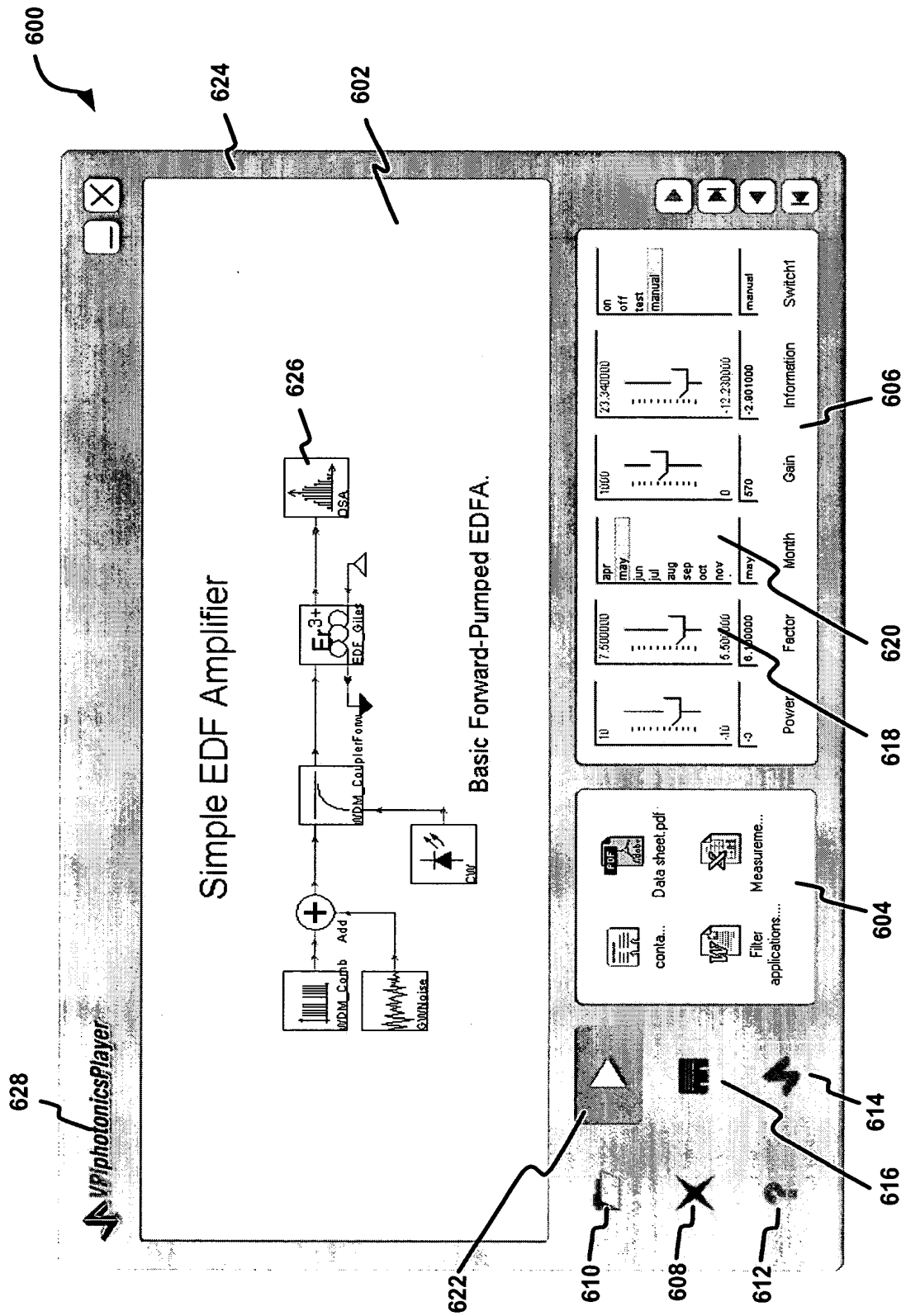


FIG. 6

700

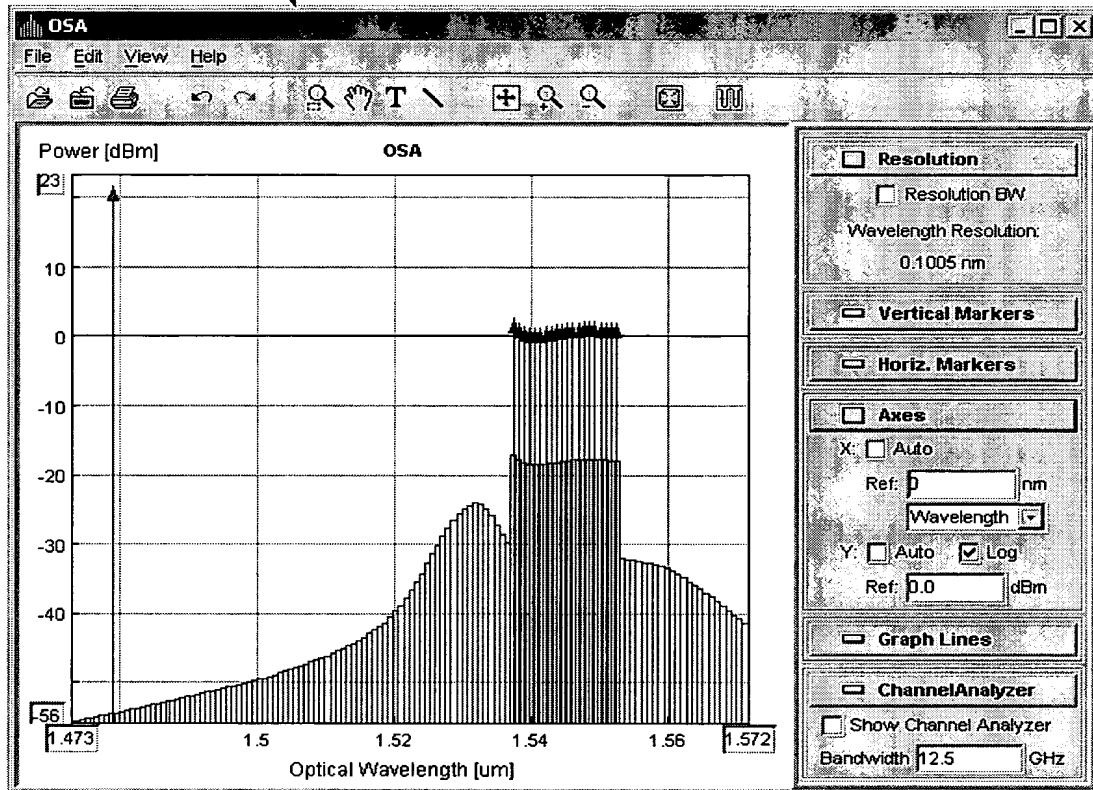


FIG. 7

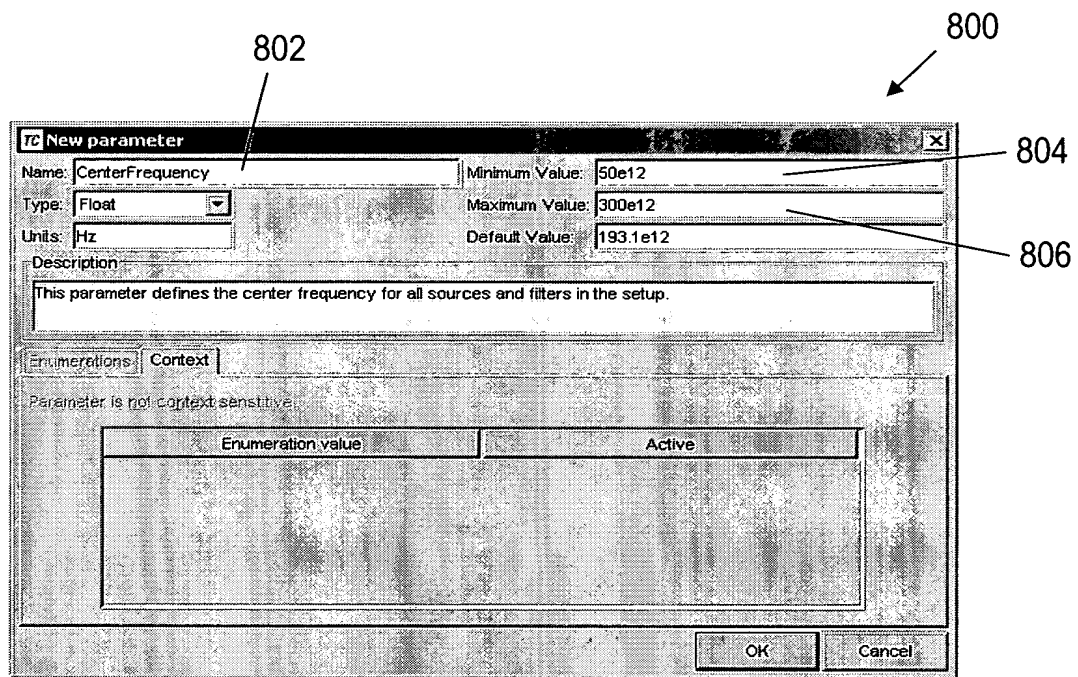


Fig. 8

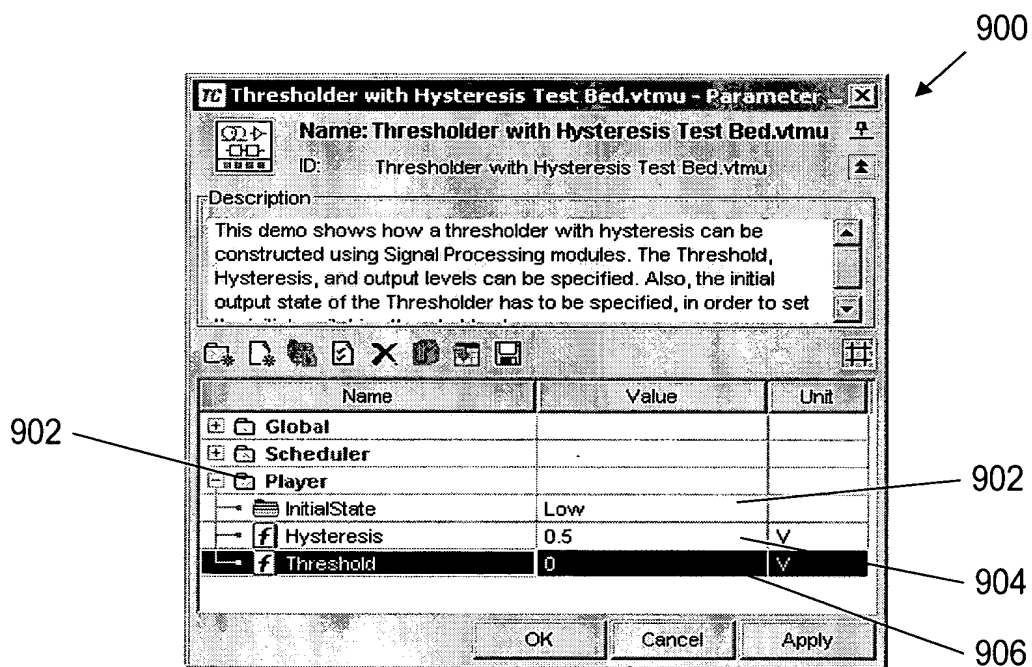
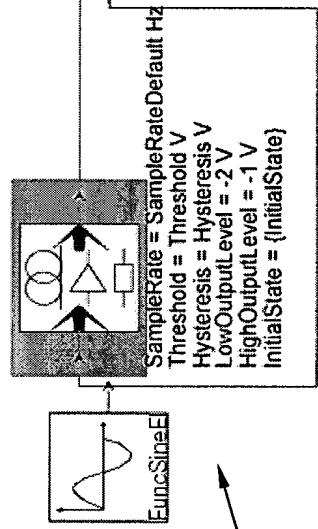


Fig. 9

# Thresholder with Hysteresis

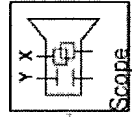
This demo shows how a thresholder with hysteresis can be constructed using Signal Processing modules. The Threshold, Hysteresis, and output levels can be specified. Also, the initial output state of the Thresholder has to be specified, in order to set the initial switching threshold value.



A galaxy parameter InitialState is used to set the initial output state of the Thresholder. This is an enumerated list. Inside the Galaxy, in the wire delay, this parameter is converted into a numerical value using the string map command.

! "expr [string map {Low -1 High +1} {InitialState}]"

Note the positions of {} braces, to evaluate the Initial State, and [] brackets to evaluate the string map command.



1002

InitialState

Low High

LOW

Hysteresis [V]

1.000e+000

0.000e+000

5.000000e-001

Threshold [V]

1.000e+000

-1.000e+000

0.000000e+000

dynamicDataSheets™

Fig. 10

**TC Create VPIplayer content**

Player details | Contact details

Simulation Configuration

Iterations: 1

☐ Standard

☐ Use script

☒ Use sweep:

Company logo

☐ Include company logo image in schematic

☐ Include Hyperlink

Security

☐ Include password

Fig. 11

**TC Create VPIplayer content**

Player details | Contact details

☐ Include vCard file

General | Address

Title:

Last name:

First name:

Job title:

Organization:

Work telephone number:

Mobile number:

Work fax number:

Email address:

Web site URL:

Fig. 12



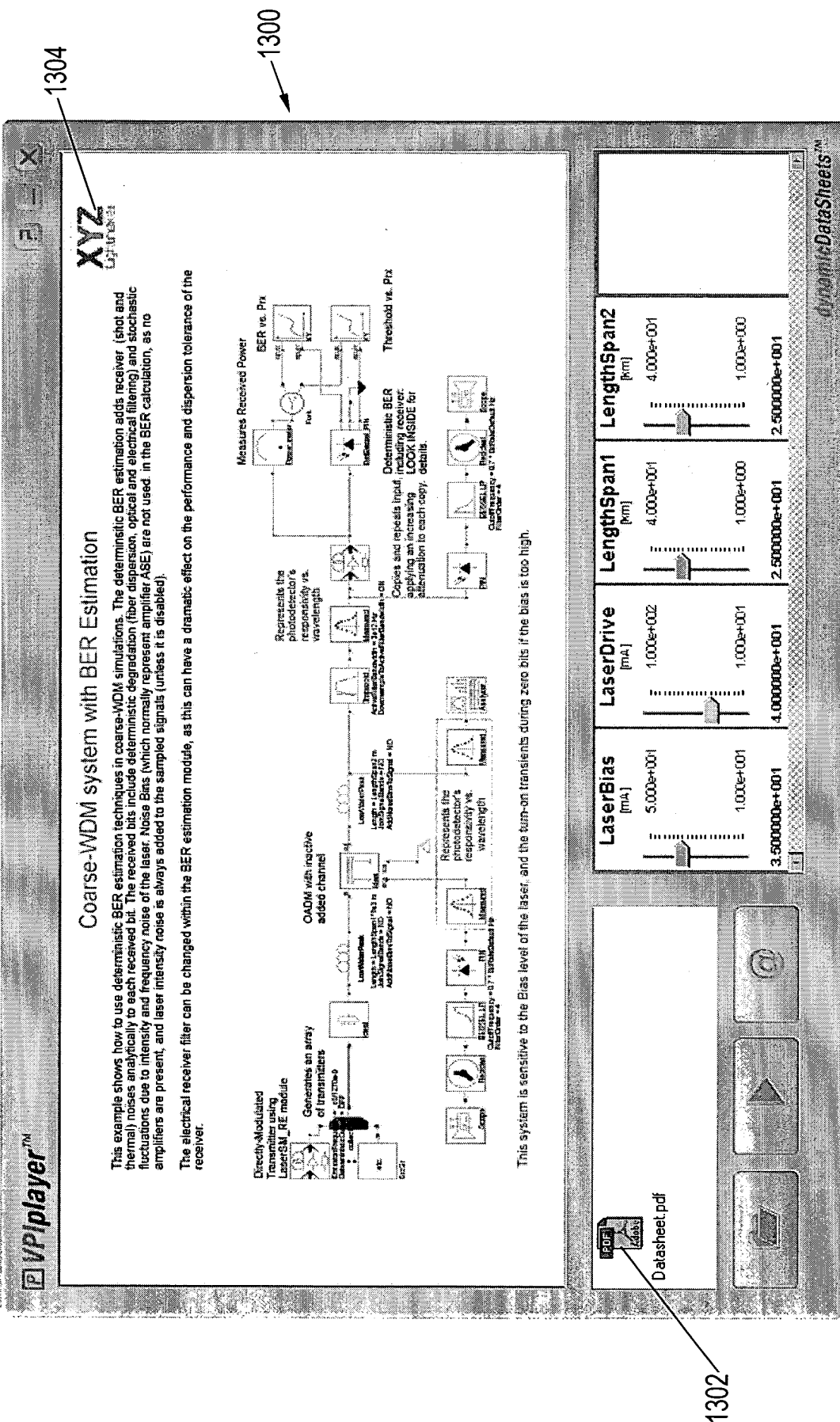


Fig. 13